

re-run



IFWO

## RAW SEQUENCE LISTING

DATE: 07/28/2004

PATENT APPLICATION: US/10/705,716A

TIME: 10:09:24

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1 <110> APPLICANT: Robinson, John Allen  
 2 Stojanovic-Susulic, Vedrana  
 3 Babij, Philip  
 4 Murrills, Richard John  
 5 <120> TITLE OF INVENTION: A Novel PTH Responsive Gene  
 6 <130> FILE REFERENCE: AM100401  
 C--> 7 <140> CURRENT APPLICATION NUMBER: US/10/705,716A  
 8 <141> CURRENT FILING DATE: 2003-11-10  
 9 <150> PRIOR APPLICATION NUMBER: US 60/425,532  
 10 <151> PRIOR FILING DATE: 2002-11-12

11 <160> NUMBER OF SEQ ID NOS: 63  
 12 <170> SOFTWARE: PatentIn version 3.2

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15 &lt;211&gt; LENGTH: 2146

16 &lt;212&gt; TYPE: DNA

17 &lt;213&gt; ORGANISM: Rat

18 &lt;400&gt; SEQUENCE: 1

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21	ggaccgagg	gaccgagtc	acctggctca	cctacaccga	ctcggacgcg	ctgcccagcg	180
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25	cccagaagca	gaatggcctt	tggaccacag	aggctaaaag	ggatgccaa	cgaatgtctg	420
26	caagagaagt	cgctatcagc	gtcacagaga	atatccggca	gatggacaga	agtaaaaggg	480
27	tcacaaagaa	ctgcatcaat	tagcagtgtc	tgggtgtgga	agcacatgaa	cttctttgtg	540
28	gcgtccagtc	aaagaatatt	gaagaagtgg	gtgtcactca	ctgaacgtgg	atgcctctga	600
29	gcgacgcacg	gccacccacg	cggtgacgac	catcccgggt	tctgtttat	cacatacaga	660
30	aaatacatcg	aaaagtccctg	gaatatgttc	acagattgcc	aaactatggt	ttgtttttcc	720
31	tctctgcagc	ttccgtagca	gggtctgctg	taaccatggt	gaagcccgtg	ggcctgtgaa	780
32	tgaatattgg	aatccccggg	gcaaggagct	cacgctagcg	tagaaatttc	acagtgcgtg	840
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41	cctaggaaca	catggtgaca	cacacgatgc	ccccttggcc	tttctgtaca	cagccccaa	1380
42	gaccgtgtta	ttttggtatc	tgcaaagcaa	ttagtttggg	aagccagagc	ctggttgatg	1440
43	tatattcctg	ctgacatcag	accaagaagg	cactgtattg	gaaagcaggc	agccaacaca	1500
44	gccaaagccat	gctctgatat	ggaccctttc	cccacattcc	taaacacatc	ctcctgcaaa	1560



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46      tccaagtigt gtcaaactgt atcaacagac tccacatcta gcagcaagag cagtctggtg      1680
47      acatgtttat acgacacagt ccaagagaag taacctaagc gggctaaaat gcagatgctc      1740
48      acgcctgtct ctgaagtgat ttctccaaca cagacagaac tgtaaaactgt gcgtttattc      1800
49      gtattaaaat tcactgccaa tcttggtgcca gctacagtaa cagacacaga ggggggttga      1860
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57 &lt;211&gt; LENGTH: 145

58 &lt;212&gt; TYPE: PRT

59 &lt;213&gt; ORGANISM: Rat

60 &lt;400&gt; SEQUENCE: 2

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63      Glu Ser Trp Thr Arg Glu Thr Glu Ser Thr Trp Leu Thr Tyr Thr Asp
64      20          25          30
65      Ser Asp Ala Leu Pro Ser Ala Ala Thr Asp Ser Gly Pro Glu Ala
66      35          40          45
67      Gly Gly Leu His Ala Gly Val Leu Glu Asp Gly Pro Ser Ser Asn Gly
68      50          55          60
69      Val Leu Arg Pro Ala Ala Pro Gly Gly Ile Ala Asn Pro Glu Lys Lys
70      65          70          75          80
71      Met Asn Cys Gly Thr Gln Cys Pro Asn Ser Gln Ser Leu Ser Ser Gly
72      85          90          95
73      Pro Leu Thr Gln Lys Gln Asn Gly Leu Trp Thr Thr Glu Ala Lys Arg
74      100         105         110
75      Asp Ala Lys Arg Met Ser Ala Arg Glu Val Ala Ile Ser Val Thr Glu
76      115         120         125
77      Asn Ile Arg Gln Met Asp Arg Ser Lys Arg Val Thr Lys Asn Cys Ile
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79      Asn
80      145

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82 &lt;210&gt; SEQ ID NO: 3

83 &lt;211&gt; LENGTH: 2847

84 &lt;212&gt; TYPE: DNA

85 &lt;213&gt; ORGANISM: Homo sapiens

86 &lt;400&gt; SEQUENCE: 3

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89      agccgccgcc agagccgaca gccgagcagc cgtcgggcgc tcccgcggcg caggaggatg      180
90      ggctgcggcg ggagccgggc ggatgccatc gagccccgct actacgagag ctggaccgcg      240
91      gagacagaat ccacctggct cacctacacc gactcggacg cgccgccagc cgccgccgcc      300
92      ccggacagcg gccccgaagc gggcggcctg cactcgggca tgctggaaga tggactgccc      360
93      tccaatggtg tgccccgatc tacagcccca ggtggaatac ccaaccaga gaagaagacg      420
94      aactgtgaga cccagtcccc aaatccccag agcctcagct caggccctct gaccagaaa      480
95      cagaatggcc ttcagaccac agaggctaaa agagatgcta agagaatgcc tgcaaaagaa      540

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96 gtcaccatta atgtaacaga tagcatccaa cagatggaca gaagtcgaag aatcacaaag 600
97 aactgtgtca actagcagag agtccaagca gaagggcaga tggacttctt cagtgtcctt 660
98 cacggcactg gatcccatca aagaaccttg aagaagtggc tgccccctgc tggacctgaa 720
99 ttctactgag tccttggaag gactgtctta cctggcagca aactgctgcc tgatttgttg 780
100 ggaccttctg agccttctac ttatcatgta aatgtattgg cacagtgcct acatatgtta 840
101 ataaactgca aatgtgcagt tcagtttgct tctttgcaac tcctgtaata cggctcgggtg 900
102 taaaagtagt gagttaagc tacaggtcag tttatgaaac agaaaagtag gaatgcattt 960
103 tctgggtgaa agagtcacac cttagtgcga taactctcct gcccatgata gtgtattctg 1020
104 tttcaggcaa gcttattctt tccttcttcc attttaaata ttgtcattac aaatcttacc 1080
105 aggttcactt aaaagctggc ttcatccaa ctctaaaccc acatattgaa aaaatcaagg 1140
106 tacaggaaaa ctcttggtta tccttgtttc cttagcttgg tatgagacag atcggatcca 1200
107 gtttcccatg caccaaccca ctgccatgg catgtctttg ggaggtgtct gtgaagcagt 1260
108 catacctgct cctcatctgc ctggaaagtc ctctatttcc agtgtccatg ttggcctcca 1320
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122 tagtcgtgac tatctatcct gaatctaaca gtgacttcat aactaggaga ctgaattaga 2160
123 cccttaaggt atagtgtgtg ttgcaaatca ctctgcaatg gaaactttta tattcagggt 2220
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136 &lt;210&gt; SEQ ID NO: 4

137 &lt;211&gt; LENGTH: 145

138 &lt;212&gt; TYPE: PRT

139 &lt;213&gt; ORGANISM: Homo sapiens

140 &lt;400&gt; SEQUENCE: 4

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146          35          40          45
147 Gly Gly Leu His Ser Gly Met Leu Glu Asp Gly Leu Pro Ser Asn Gly
148          50          55          60
149 Val Pro Arg Ser Thr Ala Pro Gly Gly Ile Pro Asn Pro Glu Lys Lys
150          65          70          75          80
151 Thr Asn Cys Glu Thr Gln Cys Pro Asn Pro Gln Ser Leu Ser Ser Gly
152          85          90          95
153 Pro Leu Thr Gln Lys Gln Asn Gly Leu Gln Thr Thr Glu Ala Lys Arg
154          100          105          110
155 Asp Ala Lys Arg Met Pro Ala Lys Glu Val Thr Ile Asn Val Thr Asp
156          115          120          125
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169 gccccggaca gcggccccga agcggggcggc ctgcactcgg gctaaaagag atgctaagag 180
170 aatgcctgca aaagaagtca ccattaatgt aacagatagc atccaacaga tggacagaag 240
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173 <210> SEQ ID NO: 6
174 <211> LENGTH: 54
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 6
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179 1 5 10 15
180 Glu Ser Trp Thr Arg Glu Thr Glu Ser Thr Trp Leu Thr Tyr Thr Asp
181 20 25 30
182 Ser Asp Ala Pro Pro Ser Ala Ala Pro Asp Ser Gly Pro Glu Ala
183 35 40 45
184 Gly Gly Leu His Ser Gly
185 50
187 <210> SEQ ID NO: 7
188 <211> LENGTH: 1988
189 <212> TYPE: DNA
190 <213> ORGANISM: Mouse
191 <400> SEQUENCE: 7
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195 cggacagcgg ccccgaggcg ggcggcctgc acgcgggtgt gctggaagac ggactgtcct 240
196 ctaacggggt gctccgacct gcagccccgg gtggaatagc caaccagag aagaagatga 300
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201   caaagaatcc tgaagaagtt gatgtcactc gatgagtgtg gatgcctctg agtgacacac      600
202   ggccacccaa cgctgtgacg aacatctcgg tttcctgttt atcacatata gaaaatacat      660
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204   agcttccata gcatggctct ctgtagccat ggcgactggc acagaaaggc tggagtaacg      780
205   gaatccctgt caaggagctc acactcgtgc agagctttct cagtgtgtgg ttgcagacaa      840
206   actccttctt tctccttttc cttttaaata cggccaccac aaaatttact gttttcactt      900
207   aagagctggc tcccagccaa ctctaaatcc agaaatacaa gaatccaaaa aaccagagag      960
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229 <212> TYPE: PRT
230 <213> ORGANISM: Mouse
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234   Glu Ser Trp Thr Arg Glu Thr Glu Ser Thr Trp Leu Thr Tyr Thr Asp
235   20          25          30
236   Ser Asp Ala Leu Pro Ser Ala Ala Thr Asp Ser Gly Pro Glu Ala
237   35          40          45
238   Gly Gly Leu His Ala Gly Val Leu Glu Asp Gly Leu Ser Ser Asn Gly
239   50          55          60
240   Val Leu Arg Pro Ala Ala Pro Gly Gly Ile Ala Asn Pro Glu Lys Lys
241   65          70          75          80
242   Met Asn Cys Gly Thr Gln Cys Pro Asn Ser Gln Asn Leu Ser Ser Gly
243   85          90          95
244   Pro Leu Thr Gln Lys Gln Asn Gly Leu Trp Ala Thr Glu Ala Lys Arg
245   100         105         110
246   Asp Ala Lys Arg Met Ser Ala Arg Glu Val Ala Ile Asn Val Thr Glu
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